

## Receiving Report

Date:

14/2/19

Supplier:

thyssen

Batch No:

1/28/65

Dart P/O:

22962

Packing Slip: Yes  No   
Invoice: Yes  No   
Receipt: Cash  Cr   
New Supplier Yes  No

Release Note Attached: Yes  No  N/A   
Waybill Attached: Yes  No  N/A   
Shipment Complete: Yes  No  N/A   
QC18 Inspection  N/A   
Work Order  N/A

## Discrepancies

Discrepancies							
Part Number	Description	Quantity Ordered	Quantity Rec'd	Quantity Short	Quantity Inspected	Quantity Rejected	Comment / NCR Number
M303RU-200		12	0	12			

**Initials of Receiver**

QC12

### Production/Admin:

Date

## Received/Costing

### Initial

14/2/19

### Location

H:\FORMS\Purchasing\approved purch\RECREPORT Rev F

## Purchase Order Receipt Listing

Wednesday, February 19, 2014 11:18:39 AM

All amounts are calculated in domestic currency.

All Vendors PO ID PO22962 Receipt Dates from 2/19/2014 to 2/19/2014 All Line Item Types  
 All Item ID/GL/WOs All Rec. Employees All Currencies  
 Grouped by Vendor ID

Purchase Order ID/ Curr Type	Line Nbr/ Insp Req	Project ID	Reference/ Description/ Cert Std	PO U/M / Stock U/M	Required Date Required Qty	Recv Date/ Recv Emp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty (PO U/M)	Book Amt
PO22962	2	VC-COP001	Thyssenkrupp Materials CA Ltd	M6061T6A1.000W.1 f	2/18/2014 2/19/2014		40.0000	\$1.35	0.0000	0	\$53.87
CAD	No			25		40.0000	DESJ02		\$53.87	0.0000	0
				6061T6 ANGLE 1.00 f							
				x 1.00 x .125W							
				m128265							
				M6061T6A4.000W.2 f							
				50		20.0000	DESJ02	\$3.92	0.0000	0	\$78.47
				6061T6 ANGLE 4.00 f							
				x 4.00 x 250							
				m128265							
				M6061T6A2.000W.1 f							
				88		20.0000	DESJ02	\$1.45	0.0000	0	\$29.00
				Angle 2.000 x 2.000 f							
				x .188W							
				m128265							
				M6061T6B0.187X04. f							
				000		24.0000	DESJ02	\$1.56	0.0000	0	\$37.53
				6061-T6 Bar .187 x f							
				4.00		24.0000	DESJ02	\$37.53	0.0000	0	
				m128265							
				M6061T6R0.625 f							
				6061-T6 Round Bar f							
				.625"							
				m128265							
				M6061T6R1.000 f							
				ROUND BAR 1.00" f							
				No		12.0000	DESJ02	\$2.24	0.0000	0	\$26.93
				m128265							
				M6061T6R1.500 f							
				6061-T6 Round Bar f							
				1.50		12.0000	DESJ02	\$3.70	0.0000	0	\$44.35
				m128265							

Purchase Order ID/ Curr Type	Line Nbr/ Insp	Project ID	Reference/ Description/ Cert Std	PO U/M / Stock U/M	Required Date	Required Qty	Recv Date/ Recv Emp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt
PO22962	9	VC-COPH01	Thyssenkrupp Materials CA Ltd	M6061-T6T8.000W.1 f 25	2/18/2014	2/19/2014		20.0000	\$13.11	0.0000	0	\$262.16
CAD	No			6061-T6 RD Tube f 8.00 X.125W ml28265			20.0000 DESJ02		\$262.16	0.0000	0	
	10			M303B1.000X1.000 f 303 BAR 1" X 1" ml28265	2/18/2014	2/19/2014		12.0000	\$11.18	0.0000	0	\$134.13
	No						12.0000 DESJ02		\$134.13	0.0000	0	
												Total Received Quantity:
												Total Qty to Inspect (PO U/M):
												Total Reject Quantity:
												Total Receipt Value:
												Total Balance Due Quantity:

## B I L L O F L A D I N G

Ship From: THYSSENKRUPP MATERIALS NA  
2821 LANGSTAFF ROAD  
CONCORD, ONTARIO L4K 5C6  
Tel: 905 669 9444 Fax: 905-738-9033

Ship Date 14Feb14 at 16:06 From PFW  
Probill  
Via VIM TRANSFER  
FOB CONCORD  
Frt PREPAID  
Route 0- 0 Manifest  
Vhicle Trailer  
Slp STAN IVERS (905-532-1350)  
Sold To: ( 20115)  
DART AEROSPACE  
1270 ABERDEEN ST  
HAWKESBURY, ON K6A 1K7  
Hawkesbury, ON K6A 1K7

## Ship To: ( 1 )

DART AEROSPACE  
1270 ABERDEEN ST  
HAWKESBURY, ON K6A 1K7  
Tel: 613-632-9577 Fax: 613-632-1053

## B I L L O F L A D I N G

1) Our Order PEC-651993- 1 Your PO # 22962  
STAINLESS STEEL SQ BAR 303 STAINLESS

1.00" X 144.0000"

Heat Number	Tag No	Quantity	PCS	Wt LBS
4A084	262757	12 FT	1	41

MTR

2) Our Order PEC-651993- 2 Your PO # 22962

ALUMINUM ANGLE 6061-T6511

1.00" x 1.00" x .125" X 240.0000"

Heat Number	Tag No	Quantity	PCS	Wt LBS
163635-2	262758	40 FT	2	12

MTR

3) Our Order PEC-651993- 3 Your PO # 22962

ALUMINUM ANGLE 6061-T6511

2.00" x 2.00" x .187" X 240.0000"

Heat Number	Tag No	Quantity	PCS	Wt LBS
401536-5	262759	20 FT	1	17

MTR

4) Our Order PEC-651993- 4 Your PO # 22962

ALUMINUM ANGLE 6061-T6511

4.00" x 4.00" x .250" X 240.0000"

Heat Number	Tag No	Quantity	PCS	Wt LBS
163514-4	262760	20 FT	1	46

MTR

5) Our Order PEC-651993- 5 Your PO # 22962

ALUMINUM FLAT BAR 6061-T6511

.187" x 4.00" X 240.0000"

Heat Number	Tag No	Quantity	PCS	Wt LBS
E3A0353A	262936	40 FT	2	35

MTR

Page: 1 ....Continued

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE  
RAPPORTÉES IMMÉDIATEMENT.

ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY

RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT.  
MERCANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

## B I L L O F L A D I N G

No: PEC 863598

Ship From:  
 THYSSENKRUPP MATERIALS NA  
 2821 LANGSTAFF ROAD  
 CONCORD, ONTARIO L4K 5C6  
 Tel: 905 669 9444 Fax: 905-738-9033

Ship Date 14Feb14 at 16:06 From PFW  
 Probill  
 Via VIM TRANSFER  
 FOB CONCORD  
 Frt PREPAID  
 Route 0-0 Manifest  
 Vhicle Trailer  
 Slp STAN IVERS (905-532-1350)  
 Sold To: ( 20115)  
 DART AEROSPACE

Ship To: ( 1)  
 DART AEROSPACE

## B I L L O F L A D I N G

6) Our Order PEC-651993- 6 Your PO # 22962

ALUMINUM ROUND BAR 6061-T6511

.625" DIA X 144.0000"

Heat Number	Tag No	Quantity	PCS	Wt LBS
40958-072	262761	36 FT	3	MTR

7) Our Order PEC-651993- 7 Your PO # 22962

ALUMINUM ROUND BAR 6061-T6511

1.00" DIA X 144.0000"

Heat Number	Tag No	Quantity	PCS	Wt LBS
37668-5	262762	12 FT	1	MTR

8) Our Order PEC-651993- 8 Your PO # 22962

ALUMINUM ROUND BAR 6061-T6511

1.50" DIA X 144.0000"

Heat Number	Tag No	Quantity	PCS	Wt LBS
164694-1	262763	12 FT	1	MTR

TOTAL:	Tags	PCS	LBS
	8	12	200

## \*\*\* Chemical Analysis \*\*\*

Heat Number  
 163514-4  
 163635-2  
 164694-1  
 37668-5  
 401536-5  
 40958-072  
 4A084  
 E3A0353A

Reys/19

MILL TEST REPORTS, PACKING SLIPS ARE TO SENT  
 WITH MATERIAL AND FAXED TO THE CUSTOMER PRIOR

Page: 2 ....Continued

ALUMINIUM • LAVIN • CUIVRE • PLASTIQUE • ACIER INOX  
 ALUMINUM • BRASS • COPPER • PLASTICS • STAINLESS

TOUTES ERREURS ET/OU MARCHANDES MANQUANTES DOIVENT ÊTRE  
 RAPPORTÉES IMMÉDIATEMENT.  
 ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY  
 RETOUR DE MARCHANDES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT.  
 MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

**B I L L   O F   L A D I N G**

No: PEC 863598

Ship From:  
THYSSENKRUPP MATERIALS NA  
2821 LANGSTAFF ROAD  
CONCORD, ONTARIO L4K 5C6  
Tel: 905 669 9444 Fax: 905-738-9033

Ship To: ( 1 )  
DART AEROSPACE

Ship Date 14Feb14 at 16:06 From PFW  
Probill  
Via VIM TRANSFER  
FOB CONCORD  
Frt PREPAID  
Route 0- 0 Manifest  
Vhicle Trailer  
Slp STAN IVERS (905-532-1350)  
Sold To: ( 20115 )  
DART AEROSPACE

**B I L L   O F   L A D I N G**

TO SHIPPING.

ATTN: CHANTAL/LINDA

\*\* ALL PACKING SLIPS MUST HAVE THE HEAT NUMBER \*\*

\*\* REFERENCED ON IT \*\*

TOTAL 2 BDLS GW. 253 LBS

ITEM (1-4,6-8) BDL, (5) BDL.

\*CUSTOMER PICK-UP HRS AT THYSSENKRUPP MATERIALS NA  
CONCORD, ONT.\*                    \*\*\* 9:00 AM TO 4:00 PM \*\*\*

\*\*\*\* TEL. 800-926-2600 \*\*\*\*

\*\*\*\*\*

\*                    WE STOCK STAINLESS STEEL                    \*

\*                    PLEASE LET US QUOTE YOUR NEXT REQUIREMENT                    \*

\*\*\*\*\*

\*\*\*PLEASE NOTE A \$25.00 ENERGY SURCHARGE WILL BE  
ADDED TO EVERY ORDER.\*\*\*

Page: 3 .... Last

ALUMINIUM - LAITON - CUIVRE - PLASTIQUE - ACIER INOX  
ALUMINUM - BRASS - COPPER - PLASTICS - STAINLESS

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE  
RAPPORTÉES IMMÉDIATEMENT.

ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY

RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT.  
MERCANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

REÇU EN BONNE CONDITIONS / RECEIVED IN GOOD CONDITION

DATE

## B I L L O F L A D I N G

No: PEC 863534  
 Ship Date 14Feb14 at 11:40 From PFW  
 Probill  
 Via VIM TRANSFER  
 FOB CONCORD  
 Frt PREPAID  
 Route 0-0 Manifest  
 Vhicle Trailer  
 Slp STAN IVERS (905-532-1350)  
 Sold To: (20115)  
 DART AEROSPACE  
 1270 ABERDEEN ST  
 HAWKESBURY, ON K6A 1K7  
 Tel: 613-632-9577 Fax: 613-632-1053

## Ship To: (1)

DART AEROSPACE  
 1270 ABERDEEN ST  
 HAWKESBURY, ON K6A 1K7  
 Tel: 613-632-9577 Fax: 613-632-1053

## B I L L O F L A D I N G

1) Our Order PEC-652114- 1 Your PO # 22962  
 Part # EXTRUDED OK Rel #

ALUMINUM TUBE 6061-T6511

8.00" OD x .125" WALL X 240.0000"

Heat Number	Tag No
21479314	262777

Quantity	PCS	Wt LBS
20 FT	1	73

Tags	PCS	LBS
TOTAL: 1	1	73

Heat Number  
 21479314

## \*\*\* Chemical Analysis \*\*\*

2/14/14

ASDD ON TO 651993 SUR-CHARGE ADDED SHIP TOGETHER

MILL TEST REPORTS, PACKING SLIPS ARE TO SENT  
 WITH MATERIAL AND FAXED TO THE CUSTOMER PRIOR  
 TO SHIPPING.

ATTN: CHANTAL/LINDA

\*\* ALL PACKING SLIPS MUST HAVE THE HEAT NUMBER \*\*  
 \*\* REFERENCED ON IT \*\*

TOTAL 1 BDL GW. 98 LBS

\*CUSTOMER PICK-UP HRS AT THYSSENKRUPP MATERIALS NA  
 CONCORD, ONT.\* \*\*\* 9:00 AM TO 4:00 PM \*\*\*  
 \*\*\*\* TEL. 800-926-2600 \*\*\*\*  
 \*\*\*\*\*

Page: 1 ....Continued

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE  
 RAPPORTÉES IMMÉDIATEMENT.

ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY

RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT.  
 MERCHANTISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

## B I L L   O F   L A D I N G

No: PEC 863534

Ship From:  
 THYSSENKRUPP MATERIALS NA  
 2821 LANGSTAFF ROAD  
 CONCORD, ONTARIO L4K 5C6  
 Tel: 905 669 9444 Fax: 905-738-9033

Ship Date 14Feb14 at 11:40 From PFW  
 Probill  
 Via VIM TRANSFER  
 FOB CONCORD  
 Frt PREPAID  
 Route 0- 0 Manifest  
 Vhicle Trailer  
 Slp STAN IVERS (905-532-1350)  
 Sold To: ( 20115)  
 DART AEROSPACE

Ship To: ( 1)  
 DART AEROSPACE

## B I L L   O F   L A D I N G

\* WE STOCK STAINLESS STEEL \*

\* PLEASE LET US QUOTE YOUR NEXT REQUIREMENT \*

\*\*\*\*\*

\*\*\*PLEASE NOTE A \$25.00 ENERGY SURCHARGE WILL BE

ADDED TO EVERY ORDER.\*\*\*

Page: 2 .... Last

ALUMINIUM • CARTON • QUIMPE • PLASTIQUE • ACIER INOX  
 ALUMINUM • BRASS • COPPER • PLASTICS • STAINLESS

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE  
 RAPPORTÉES IMMÉDIATEMENT.

ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY

RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT.  
 MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

REÇU EN BONNE CONDITIONS / RECEIVED IN GOOD CONDITION

DATE



# THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM ANGLE 6061-T6511  
2.00" x 2.00" x .187" X 240.0000"  
PART NO.

PO/Rel 22962

We certify that this is a true copy of the report  
furnished by the producer of the metal, or data  
resulting from tests made in approved labs.

## Certificate of Mill Test Results

BL PEC-863598-003

14Feb14

Pg 1/1

Signed by: \_\_\_\_\_

**CAN ART**  
ALUMINUM EXTRUSION INC.

### Material Test Report

Manifest: 273224

Ship To: ThyssenKrupp Materials NA  
2821 Langstaff Road  
Concord, ON L4K 5C6

Ticket:  
5349337

Our Order: **401536 - 5** Cust P.O.: 255466  
Die: ES05620 Part: 05620-000-240  
Alloy Temper: 6061 T6511 Description: 2.000 x 2.000 x .187  
Print Date: 2/5/14

Chemical Composition Range										
6061	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Other Each	Other Total
Min	0.40		0.15		0.8	0.04				
Max	0.8	0.7	0.40	0.15	1.2	0.35	0.25	0.15	0.05	0.15

Mechanical Properties							
Strength ksi							
Sample ID	Cast #	Lot #	Test Date	Ultimate Tensile	Yield 2% offset	Elongation 2" gage length	
500935	14010221A	A11	2/4/14	44.96	39.42	10.4	

Applicable Specifications: ASTMB221-13 QQA200/8

Country of Origin: 85 Parkshore Drive, Brampton, Ontario CANADA L6T 5M1

Can Art Aluminum Extrusion Inc. certifies that materials shipped under this order have been inspected and tested in accordance with Aluminum Association and agreed upon customer specifications. Can Art assumes no liability for additional costs which may be incurred during the customer's manufacture and sale of its products, and is subject only to the replacement of any materials not within agreed upon specifications provided written notification is received by Can Art within 30 days from the date of shipment.

Ray Hussain - Tensile Testing

Authorized:

  
Evan Eng, Quality Assurance Mgr.

# THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM FLAT BAR 6061-T6511  
.187" x 4.00" X 240.0000"  
PART NO.

PO/Rel 22962

We certify that this is a true copy of the report  
furnished by the producer of the metal, or data  
resulting from tests made in approved labs.

## Certificate of Mill Test Results

BL PEC-863598-005

14Feb14

Pg 1/1

Signed by: \_\_\_\_\_



**LB ALUMINIUM BERHAD**  
(138535-V)

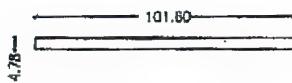


ALUMINIUM EXTRUSION

### TEST CERTIFICATE

CUSTOMER:	SECTION NO.:	DATE:
THYSSENKRUPP MATERIALS NA	PE01230MF06100	Nov-18-2013
SALES ORDER NO.:	WORK ORDER:	ALLOY:
1364536	362773	6061-T6511
PRESS NO.:	EXTRUSION DATE:	CERTIFICATE NO.:
2000	Oct-29-2013	MCERT1310627
CUSTOMER PO NO.:		
THYSSENKRUPP 1		

Section Sketch:



Thickness = 4.76 mm

CHEMICAL COMPOSITION										
Composition	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Al	Analysis Ref.-
Min	0.40	0.00	0.15	0.00	0.80	0.04	0.00	0.00		
Max	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	Remainder	E3A0353A
Actual	0.670	0.180	0.340	0.020	1.010	0.080	0.010	0.011		Jan-23-2013

MECHANICAL PROPERTIES (Result shown is tested by LBALUM)										
	Tensile Strength N/mm <sup>2</sup>			Yield Stress N/mm <sup>2</sup>			Elongation (%)			
Standard	260			240			6			
Result	293.91			271.35			13.96			

Compliance with ASTM B221M-07  
We hereby certify that the material covered by this report has been verified or tested according to the seller standard sampling method or the requirements of any specializations or requirements described herein, and that sample representative of the material met the composition limits and had the mechanical properties shown. Also, note that mercury is not a normal component in aluminum alloys. Neither mercury nor any of its compounds are used in the manufacture of our extrusions.

\*\* This certificate of Analysis has been produced electronically and is valid without signature \*\*

Lot 11, Jalan Perusahaan 1, Kawasan Perusahaan Beranang, 43700 Beranang, Selangor Darul Ehsan, Malaysia.  
Tel: 603-8723 8822 (15 Lines) Fax: 603-8723 3191 (General), 8723 7272 (Sales), 8727 1218 (Export)  
Enquiry@lbalum.com.my www.lbalum.com

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

PO/Rel 22962

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

## **Certificate of Mill Test Results**

BL\_PEC-863598-007

14Feb14

Pg 1/1

VITEX

43 Industrial Park Dr.  
P.O. Box 270  
Franklin, NH  
03235-6149  
Tel: (603) 934-5275

## CERTIFICATE OF INSPECTION AND TEST RESULTS

SALES ORDER / W/TEX LOT  
37668 - 5

BILL TO		ThyssenKrupp Materials NA	
2821 Langstaff Road		Concord, ONT L4K 5C8	
MANIFEST NUMBER	63198	DATE OF SHIPMENT	CONFIRMATION
	900197	12/06/13	Carb Required
CUSTOMER PO	PEC-253222	ALLOY / TEMPER	SPECIFICATION
	6061 / T6511	SALESMAN	ASTM B 221-13
CUSTOMER PART NUMBER	1" DIA ROUND ROD	DESCRIPTION	SPECIFICATION
LENGTH	144.00"	1" DIA ROD	SAE AMS QQA 200/8 Rev 9;
		PIECES SHIPPED	SPECIFICATION
	168	POUNDS SHIPPED	Copy of Mill Chemistry/w ord

Mechanical Properties

Cent Notes.

**Products manufactured with a 6081-T651 temper also meet T8 temper requirements. Products manufactured with a 6063-T52 temper also meet T5 temper requirements. Yield strength has been determined by the 0.2% offset method.**

Extrusion made in USA.

**We hereby certify that the material covered by this report has been inspected in accordance with, and has been found to meet the applicable requirements described herein. The chemical composition limits and mechanical property limits are set forth above. Samples of the material have been found to meet these requirements. Inspection and test results are maintained on file and are available upon request.**

**AUTHORIZED SIGNATURE**

AUTHORIZED SIGNATURE

12/16/2013 16:02 #257 P, 005/020

### FROM: VITEX EXTRUSION

# THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM ANGLE 6061-T6511  
1.00" X 1.00" X .125" X 240.0000"

PART NO.

## EXTRUDEX

ALUMINUM

### MILL TEST ASTM B221-12

PO/Ref 22962  
We certify that this is a true copy of the report  
furnished by the producer of the metal or data  
resulting from tests made in approved labs.

Signed by:

### Certificate of Mill Test Results

BL PEC-863598-002

14Feb14

TEL: (416)745-4444 FAX:(416)745-0925 1-800-668-7210  
411 CHRISLEA ROAD, WOODBRIDGE, ONTARIO, CANADA L4L 8N4  
<http://www.extrudex.com>

BULL TO		CONF. CODE:	DATE OF SHIPMENT		EXTRUDEX ORDER NO.		MANIFEST NO.	
THYSSENKRUPP MATERIALS NA		1	0.74	S 2228	11/26/2013	163635 — 2	299042	
SHIP TO				ALLOY		SALESMAN		
THYSSENKRUPP MATERIALS NA		773	CUSTOMER PO	6061	T6511	FORBES DODWELL		
SO DESCRIPTION			PEC-253628					
1"X 1.25" RF AN			CUSTOMER PART NUMBER					
			9-125-1000					

### Mechanical Properties

Lot	Alloy	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation	Hardness	Conductivity
A.11	6061	Nov/21/13	43.2	39.8	12.40	89.2,89.9,89.5	

### Chemical Composition

Cast Number	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Tl	Ga	V	B	Zr	Bi	Pb	Sn	Si	Co	Al	Other
A.11 13110571A	0.54	0.17	0.19	0.02	0.80	0.07	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

We certify that the following extrusions have been quality inspected/tested and conforms to required dimensional and temper specifications.

David Natale  
Quality Control Manager

# THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM ANGLE 6061-T6511  
4.00" x 4.00" x .250" x 240.0000"

PART NO.

## EXTRUDEX

ALUMINUM

### MILL TEST ASTM B221-12

PO/Rel 22962  
WE CERTIFY THAT THIS IS A TRUE COPY OF THE REPORT  
FURNISHED BY THE PRODUCER OF THE METAL, OR DATA  
RESULTING FROM TESTS MADE IN APPROVED LABS.

Signed by:

### Certificate of Mill Test Results

BL PEC-863598-004

14Feb14

Pg 1/1

TEL: (416)745-4444 FAX: (416)745-0925 1-800-668-7210  
411 CHRISLEA ROAD, WOODBRIDGE, ONTARIO, CANADA L4L 8N4  
<http://www.extrudex.com>

BILL TO		CERT CODE:		DIE NUMBER		DATE OF SHIPMENT		EXTRUDEX ORDER NO.		MANIFEST NO.	
THYSSENKRUPP MATERIALS NA	1773	1	0.69	S	22440	12/3/2013		163514 - 4		299436	
SHIP TO		CUSTOMER PO		ALLOY	TEMPER	SALESMAN		MADE IN CANADA			
THYSSENKRUPP MATERIALS NA		PECC-253548		6061	T6511	FORBES DODWELL					
SO DESCRIPTION		CUSTOMER PART NUMBER		PART DESCRIPTION				CERTIFICATION			
4" x 250" RF AN								MILL TEST ASTM B221-12			

### Mechanical Properties

Lot	Alloy	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation	Hardness	Conductivity
A.11	6061	Nov/26/13	43.5	40.2	13.90	89.0, 89.3, 88.8	

### Chemical Composition

Chemical	Cast Number	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Tl	Ga	V	B	Zr	Bi	Pb	Sn	Si	Co	Al	Other
A.11	22688	0.54	0.197	0.198	0.051	0.85	0.049	0.00	0.006	0.012	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

We certify that the following extrusions have been quality inspected/tested and conforms to required dimensional and temper specifications.

David Natalie  
Quality Control Manager

1 - CUSTOMER COPY

MILL TEST ASTM B221-12

# THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM ROUND BAR 6061-T6511  
.625" DIA X 144.0000"  
PART NO.

PO/Rel 22962

We certify that this is a true copy of the report  
furnished by the producer of the metal, or data  
resulting from tests made in approved labs.

## Certificate of Mill Test Results

BL PEC-863598-006

14Feb14

Pg 1/2

Signed by: \_\_\_\_\_

**KAISER**  
**ALUMINUM**  
**FABRICATED PRODUCTS**

*Brett J. G.*

## CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

KAISER ALUMINUM  
FABRICATED PRODUCTS, LLC  
5205 KAISER DRIVE  
KALAMAZOO, MI 49048

CUSTOMER PO NUMBER:		CUSTOMER PART NUMBER:		PRODUCT DESCRIPTION:							
PEC-251595-1		ALRD00391		.625 +/- .004 ROD							
KAISER ORDER NUMBER:	LINE ITEM:	SHIP DATE:		KAISER LOT NUMBER:	ALLOY:	TEMPER:					
651259	001	09/06/2013		40958-072	6061	T6511					
WEIGHT SHIPPED:	QUANTITY:	BL NUMBER:		DIAM/DAF/THKNS:	WIDTH:	LENGTH:					
1004.000 LB	232.000 PCS	607057				12.000 FT					
SHIP TO:				SOLD TO:							
THYSSENKRUPP MATERIALS NA 2821 LANGSTAFF ROAD CONCORD, ON L4K 5C6 CANADA				THYSSENKRUPP MATERIALS NA 2821 LANGSTAFF ROAD CONCORD, ON L4K 5C6 CANADA							

### Actual Physical Properties

REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	ELONG%	HARDNESS	CONDUCT.	BEND
40958-072	0001	1	48.8	44.2	16.0	RE 93	N/A	N/A
40958-072	0001	2	48.8	44.3	16.5	RE 93	N/A	N/A
40958-072	0001	3	48.7	44.3	16.3	RE 93	N/A	N/A
40958-072	0001	4	48.5	43.9	16.3	RE 93	N/A	N/A
40958-072	0001	5	48.9	44.4	16.3	RE 92	N/A	N/A
40958-072	0001	6	48.4	43.3	16.4	RE 93	N/A	N/A
40958-072	0001	7	48.7	44.3	16.3	RE 94	N/A	N/A
40958-072	0001	8	49.3	44.6	16.2	RE 92	N/A	N/A
40958-072	0001	9	49.9	45.1	16.1	RE 93	N/A	N/A

### Chemical Composition (wt%), Aluminum Remainder

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximum	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	NA	NA	0.05	0.15
Minimum	0.40	0.00	0.15	0.00	0.80	0.04	0.00	0.00	NA	NA	NA	0.00	0.00
H43855	.68	.33	.29	.10	.94	.11	.16	.02	.0C	.01	.00	.01	.03

### Applicable Requirements:

ASTM-B221-13 NON-STENCILED ASME-SB221 1998 SECT II AMS-QQ-A-200/3 (2007) UNS#A96061  
(T6511 also conforms to T6-not applicable to other tempers)

### Miscellaneous Notes

MANUFACTURED IN USA (SHERMAN, TX) MELTED IN USA  
MERCURY IS NOT A NORMAL BACKGROUND ELEMENT IN ALUMINUM ALLOYS. NEITHER MERCURY NOR ANY  
OF ITS COMPOUNDS ARE UTILIZED BY KAISER ALUMINUM IN THE MANUFACTURE OF THIS MATERIAL.

Plant Serial: 00105007

Kaiser Order Number: 651259

Line Item: 001

Page 1 of 2

# THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM ROUND BAR 6061-T6511  
.625" DIA X 144.0000"  
PART NO.

PO/Rel 22962

We certify that this is a true copy of the report  
furnished by the producer of the metal, or data  
resulting from tests made in approved labs.

## Certificate of Mill Test Results

BL PEC-863598-006

14Feb14

Pg 2/2

Signed by: \_\_\_\_\_



A handwritten signature in cursive ink that appears to read "Timothy K. Fargo".

## CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

KAISER ALUMINUM  
FABRICATED PRODUCTS, LLC  
5205 KAISER DRIVE  
KALAMAZOO, MI 49048

### CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

Timothy K. Fargo, Quality & Technology Manager

A handwritten signature in cursive ink that appears to read "Timothy K. Fargo".

Plant Serial: 00105007  
Kaiser Order Number: 651259  
Line Item: 001

Page 2 of 2

# THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM ROUND BAR 6061-T6511  
1.50" DIA X 144.0000"  
PART NO.

PO/Ref 22962

We certify that this is a true copy of the report  
furnished by the producer of the metal, or data  
resulting from tests made in approved labs.

Signed by: \_\_\_\_\_

BL PEC-263598-008

14Feb14  
Pg 1/1

## EXTRUDEX

ALUMINUM

TEL: (416)745-4444 FAX:(416)745-0925 1-800-668-7210  
411 CHRISLEA ROAD, WOODBRIDGE, ONTARIO, CANADA L4L 8N4  
<http://www.extrudex.com>

### MILL TEST ASTM B221-12

BILL TO	THYSSENKRUPP MATERIALS,NA	1773 CERT CODE:	1	DIE NUMBER	2500	DATE OF SHIPMENT	Jan/09/2014	EXTRUDEX ORDER NO.	164694 — 1	MANIFEST NO.	300669
SHIP TO	THYSSENKRUPP MATERIALS,NA	1774 CUSTOMER PO	PEC-254596	ALLOY	6061	TEMPER	T6511	SALESMAN	FORBES DODWELL	MADE IN CANADA	
SO DESCRIPTION	1.5" DIA	CUSTOMER PART NUMBER	4-1500	PART DESCRIPTION				CERTIFICATION	MILL TEST ASTM B221-12		

### Mechanical Properties

Lot	Alloy	Test Date	Ultimate Tensile Strength (kSI)	Yield Strength (kSI)	Percent Elongation	Hardness	Conductivity
A.11	6061	Jan/07/2014	54.90	49.80	13.30	92.0,92.8,92.5	

### Chemical Composition

Cast Number	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Ga	V	B	Zr	Bi	Pb	Sn	Si	Co	Al	Other
A.11 22988	0.60	0.76	0.320	0.340	0.070	1.02	0.080	0	0.010	0.020	0	0	0	0	0	0	0	0	0	0

We certify that the following extrusions have been quality inspected/tested and conforms to required dimensional and temper specifications.

David Natale  
Quality Control Manager

# THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM TUBE 6061-T6511  
8.00" OD X 1.25" WALL X 240.0000"  
PART NO. EXTRUDED OK

PO/Ref 22962

We certify that this is a true copy of the report  
furnished by the producer of the metal, or data  
resulting from tests made in approved labs.

## Certificate of Mill Test Results

BL PEC-863534-001

14Feb14

Pg 1/2

## Sapa:

Sapa Industrial Extensions  
51 POTTSVILLE STREET

17929-0187

Sapa Extrusions Inc., a Subsidiary of Sapa AB

Invoice To Customer

THYSSENKRUPP MATERIALS NA INC

2821 LANGSTAFF ROAD

ATTN: ACCOUNT PAYABLE

CONCORD, ON - L4K-3C6

Ship To Customer

THYSSENKRUPP MATERIALS NA INC

2821 LANGSTAFF ROAD

CONCORD, ON - L4K-3C6

## Certified Inspection Report

Sales Order Number	Line No.	Customer PO#	Cert Number	Page
110627399	1	PFC 249856-1	SAPAS21141	1 of 2
			Cert Creation Date	Cert Print Date
			20-AUG-13	20-AUG-13

Quantity Shipped	Date Shipped	Item Description	Specification
510	LB	20-AUG-13	Extruded Circular & Irregular Tube 8.000 OD X 1.25 WALL X 240.0000 IN ASTM B221 REV 01
800	Item No.	Item No.	ASTM B221 REV 13
456413		G03922838	ASME SB221 REV 09
Delivery Id	Item No. Rev	WPE 3.637 F 14 C S 8 FTN M-MILL 6061/T6511	ASTM B345 REV 11
4458430			AMS-QQ-A-2008 REV 1997
CustomerPartNo			Marking CONTINUOUS;
8X125			

### Applicable Specifications, Revisions and Exceptions

COMPOSITION NOTE: The values for 'Others Each' and 'Others Total' have met the limits as shown on  
this certified inspection report. Remainder is Aluminum.

Signature And Title

William T. Martin, III

20-AUG-13

Tech/Quality Manager

Legal Statement  
We hereby certify that unless otherwise indicated, the material covered by this report has been manufactured, inspected and  
tested in accordance with, and has been found to meet, the applicable requirements described herein, including any  
specifications forming a part of the description and that samples representative of the material met the composition and had the  
mechanical properties shown on the face of this certification. Also, note that mercury is not a normal contaminant in  
aluminum alloys and neither it nor any of its compounds are used in the manufacture of our product. This certification is not to  
be reproduced in part or form without prior written approval of our Quality Assurance Dept.

### Quantities per Lot / Packages

Packaging Type	Lot Number	Quantity	UOM	Weight
	21479314	7	PCS	518

### Composition Limits

Element	Si	Re	Cu	Mo	Mn	Cr	Zn
Alloy	Max						
6061	0.40	0.80	0.70	0.15	0.40	0.15	0.80

# THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM TUBE 6061-T6511  
8.00" OD X 1.25" WALL X 240.0000"  
PART NO. EXTRUDED OK

PO/Rel 22962

We certify that this is a true copy of the report  
furnished by the producer of the metal, or data  
resulting from tests made in approved labs.

## Certificate of Mill Test Results

BL PHC-863534-001

14Feb14  
Pg 2/2

### Sapa:

Sapa Industrial Extrusions  
53 POTTSVILLE STREET  
CRESSONA, PA  
17929-0187

### Certified Inspection Report

Sales Order Number	Line No.	Customer P/O	Cert Number	Page
1100627399	1	PEC-240856-1	SAPAF22141	Page 2 of 2
			20-AUG-13	20-AUG-13

Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Ni	Pb	Other Tech		Other Total	
											Min	Max	Min	Max
6061	0.70	0.33	0.27	0.05	0.95	0.05	0.05	0.02	—	—	—	—	—	—
...	0.15	—	0.05	—	0.05	—	—	—	—	0.15	—	—	—	—

#### Composition Results

Heat / Cast	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Ni	Pb	Other Tech		Other Total	
											Min	Max	Min	Max
4030654	0.70	0.33	0.27	0.05	0.95	0.05	0.05	0.02	—	—	—	—	—	—

#### Mechanical Property - Test Limits

Test Temp:	Lot Number:	UTS - L	TYS - L	KSI	KSI	EL 450 Long		PCT	
						MIN Value	MAX Value	MIN Value	MAX Value
18311	21479314	2	43.8	45.0	38.7	40.5	10.0	10.1	10.1

#### Cert Notes

Products manufactured with a T651 temper also meet T6 temper requirements.

Yield strength has been determined by the 0.2% offset method.

All null finish alloys produced at Sapa Industrial Extrusions comply with Directive 2011/65/EU (RoHS 2), with the exception of 6242 alloy

In accordance with EN 10204 Inspection Certificate Type 3.1

Melted in the USA, or Other Qualified Countries as Defined by DFARS 224.8721

Melted in USA

## MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M606T 8.000 X 1.25 PO / BATCH NO.: 22962  
 DATE: 14-2-19

MATERIAL CERT REC'D: 14-2-19 THICKNESS ORDERED: 1.25  
 QUANTITY RECEIVED: 20 THICKNESS RECEIVED: 1.25  
 QUANTITY INSPECTED: 20 SHEET SIZE ORDERED: 1  
 QUANTITY REJECTED: 1 SHEET SIZE RECEIVED: 1

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <u>N</u>	
CORRECT FINISH	Y <u>N</u>	
CORROSION	Y <u>N</u>	
CORRECT GRAIN DIRECTION	Y <u>N</u>	
CORRECT MATERIAL	Y <u>N</u>	
CORRECT THICKNESS	Y <u>N</u>	
PHOTO REQUIRED	Y <u>N</u>	
CORRECT MATERIAL	Y <u>N</u>	
CORRECT REF # TO LINK CERT	Y <u>N</u>	<u>M606T 8.000 X 1.25</u>
CORRECT MATERIAL IDENTIFICATION	Y <u>N</u>	
CORRECT M# ON THE MATERIAL	Y <u>N</u>	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <u>N</u>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <u>N</u>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>27 9-09</u>	SIGNED OFF BY: _____
DATE: <u>14/2/19</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

## MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M303B1.00x1.00 PO / BATCH NO.: 22962  
 DATE: 14/10/18

MATERIAL CERT REC'D: W1219  
 QUANTITY RECEIVED: 12  
 QUANTITY INSPECTED: 12  
 QUANTITY REJECTED: 1

THICKNESS ORDERED: 1.00  
 THICKNESS RECEIVED: 1.00  
 SHEET SIZE ORDERED:   
 SHEET SIZE RECEIVED:

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	<input checked="" type="checkbox"/> <input type="checkbox"/> N	
CORRECT FINISH	<input checked="" type="checkbox"/> <input type="checkbox"/> N	
CORROSION	<input checked="" type="checkbox"/> <input type="checkbox"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/> <input type="checkbox"/> N	
CORRECT MATERIAL	<input checked="" type="checkbox"/> <input type="checkbox"/> N	
CORRECT THICKNESS	<input checked="" type="checkbox"/> <input type="checkbox"/> N	
PHOTO REQUIRED	<input checked="" type="checkbox"/> <input type="checkbox"/> N	
CORRECT MATERIAL	<input checked="" type="checkbox"/> <input type="checkbox"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/> <input type="checkbox"/> N	<u>M303B1.00x1.00</u>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/> <input type="checkbox"/> N	
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/> <input type="checkbox"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="checkbox"/> <input type="checkbox"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="checkbox"/> <input type="checkbox"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: _____	SIGNED OFF BY: _____
DATE: _____	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

## MATERIAL RECEIPT INSPECTION FORM

MATERIAL: m6061T6R1.S00  
 DATE: 14-2-19

PO / BATCH NO.: 22962

MATERIAL CERT REC'D: 14-2-19  
 QUANTITY RECEIVED: 12  
 QUANTITY INSPECTED: 12  
 QUANTITY REJECTED: X

THICKNESS ORDERED: 1.500  
 THICKNESS RECEIVED: 1.500  
 SHEET SIZE ORDERED: 1  
 SHEET SIZE RECEIVED: 1

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	N	
CORRECT FINISH	Y	N	
CORROSION	Y	N	
CORRECT GRAIN DIRECTION	Y	N	
CORRECT MATERIAL	Y	N	
CORRECT THICKNESS	Y	N	
PHOTO REQUIRED	Y	N	
CORRECT MATERIAL	Y	N	
CORRECT REF # TO LINK CERT	Y	N	<u>m6061T6R1.S00</u>
CORRECT MATERIAL IDENTIFICATION	Y	N	
CORRECT M# ON THE MATERIAL	Y	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	N	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS 27 9-09-19</u>	SIGNED OFF BY: _____
DATE: <u>14/2/19</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

## MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M606T6L 1.000  
 DATE: 14-2-19

PO / BATCH NO.: 20962

MATERIAL CERT RECD: 14-2-19  
 QUANTITY RECEIVED: 12  
 QUANTITY INSPECTED: 12  
 QUANTITY REJECTED: 1

THICKNESS ORDERED: 1.000  
 THICKNESS RECEIVED: 1.000  
 SHEET SIZE ORDERED: 1  
 SHEET SIZE RECEIVED: 1

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORRECT FINISH	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORROSION	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORRECT MATERIAL	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORRECT THICKNESS	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
PHOTO REQUIRED	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORRECT MATERIAL	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<u>M606T6L 1.000</u>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>26</u> <u>27</u> <u>9</u>	SIGNED OFF BY: _____
DATE: <u>14/5/19</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

## MATERIAL RECEIPT INSPECTION FORM

MATERIAL: m600d16rg . 625  
 DATE: 14/2/19

PO / BATCH NO.: 22962

MATERIAL CERT REC'D: 14/2/19  
 QUANTITY RECEIVED: 36  
 QUANTITY INSPECTED: 36  
 QUANTITY REJECTED: 0

THICKNESS ORDERED: .625  
 THICKNESS RECEIVED: .625  
 SHEET SIZE ORDERED: 1  
 SHEET SIZE RECEIVED: 1

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT FINISH	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORROSION	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT GRAIN DIRECTION	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT MATERIAL	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT THICKNESS	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
PHOTO REQUIRED	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT MATERIAL	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT REF # TO LINK CERT	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	<u>m600d16rg . 625</u>
CORRECT MATERIAL IDENTIFICATION	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT M# ON THE MATERIAL	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>27 0.69</u>	SIGNED OFF BY: _____
DATE: <u>14/2/19</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

## MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061T6BS 1.87 X 4.00 PO / BATCH NO.: 22962  
 DATE: 14-2-19

MATERIAL CERT REC'D: 14/2/19  
 QUANTITY RECEIVED: 24  
 QUANTITY INSPECTED: 24  
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 1.87  
 THICKNESS RECEIVED: 1.87  
 SHEET SIZE ORDERED: ✓  
 SHEET SIZE RECEIVED: ✓

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
CORRECT FINISH	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
CORROSION	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
CORRECT MATERIAL	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
CORRECT THICKNESS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
PHOTO REQUIRED	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
CORRECT MATERIAL	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>M6061T6BS 1.87 X 4.00</u>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>27 9-89</u>	SIGNED OFF BY: _____
DATE: <u>14/2/19</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

## MATERIAL RECEIPT INSPECTION FORM

MATERIAL: m6061T6A2.000 x 1.88  
 DATE: 14-2-19

PO / BATCH NO.: 22962

MATERIAL CERT REC'D: 14/2/19  
 QUANTITY RECEIVED: 20  
 QUANTITY INSPECTED: 20  
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 2.50  
 THICKNESS RECEIVED: 2.50  
 SHEET SIZE ORDERED: 1  
 SHEET SIZE RECEIVED: 1

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <u>N</u>	
CORRECT FINISH	Y <u>N</u>	
CORROSION	Y <u>N</u>	
CORRECT GRAIN DIRECTION	Y <u>N</u>	
CORRECT MATERIAL	Y <u>N</u>	
CORRECT THICKNESS	Y <u>N</u>	
PHOTO REQUIRED	Y <u>N</u>	
CORRECT MATERIAL	Y <u>N</u>	
CORRECT REF # TO LINK CERT	Y <u>N</u>	<u>m6061T6 A 2.00 x 1.88</u>
CORRECT MATERIAL IDENTIFICATION	Y <u>N</u>	
CORRECT M# ON THE MATERIAL	Y <u>N</u>	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <u>N</u>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <u>N</u>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>27 9-89</u>	SIGNED OFF BY: _____
DATE: <u>14/2/19</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

## MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061T6A 4.000 X 250 PO / BATCH NO.: 22962  
 DATE: 14-2-19

MATERIAL CERT RECD: 14-2-18  
 QUANTITY RECEIVED: 20  
 QUANTITY INSPECTED: 20  
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 2.50  
 THICKNESS RECEIVED: 2.50  
 SHEET SIZE ORDERED: 1  
 SHEET SIZE RECEIVED: 1

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT FINISH	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORROSION	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT GRAIN DIRECTION	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT MATERIAL	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT THICKNESS	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
PHOTO REQUIRED	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT MATERIAL	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT REF # TO LINK CERT	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	<u>M6061T6A 4.000 X 250</u>
CORRECT MATERIAL IDENTIFICATION	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT M# ON THE MATERIAL	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>27 9-89</u>	SIGNED OFF BY: _____
DATE: <u>14/2/19</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

## MATERIAL RECEIPT INSPECTION FORM

MATERIAL: m6061T6A 1.000x1.25 PO / BATCH NO.: 22962  
 DATE: 14-2-19

MATERIAL CERT RECD: <u>14-2-18</u>	THICKNESS ORDERED: <u>1.25</u>
QUANTITY RECEIVED: <u>40</u>	THICKNESS RECEIVED: <u>1.25</u>
QUANTITY INSPECTED: <u>40</u>	SHEET SIZE ORDERED: _____
QUANTITY REJECTED: <u>0</u>	SHEET SIZE RECEIVED: _____

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	<input checked="" type="checkbox"/> <input type="checkbox"/> N	
CORRECT FINISH	<input checked="" type="checkbox"/> <input type="checkbox"/> N	
CORROSION	<input checked="" type="checkbox"/> <input type="checkbox"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/> <input type="checkbox"/> N	
CORRECT MATERIAL	<input checked="" type="checkbox"/> <input type="checkbox"/> N	
CORRECT THICKNESS	<input checked="" type="checkbox"/> <input type="checkbox"/> N	
PHOTO REQUIRED	<input checked="" type="checkbox"/> <input type="checkbox"/> N	
CORRECT MATERIAL	<input checked="" type="checkbox"/> <input type="checkbox"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/> <input type="checkbox"/> N	<u>m6061T6A 1.000x1.25</u>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/> <input type="checkbox"/> N	
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/> <input type="checkbox"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="checkbox"/> <input type="checkbox"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="checkbox"/> <input type="checkbox"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>27 9-89</u>	SIGNED OFF BY: _____
DATE: <u>14/2/19</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID PO22962

Purchase Order Date 2/11/2014  
PO Print Date 2/19/2014

Page Number 1 of 5

Order From : VC-COP001  
THYSSENKRUPP MATERIALS CA LTD  
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL "A"  
TORONTO, ON M5W 5V8  
CA

Ship To : DART AEROSPACE LTD  
1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

*REvised*

Contact Name	Buyer	Chantal Lavoie
Vendor Phone	Customer POID	
	Customer Tax #	10127-2607
Ship To Contact	Terms	Net 30
Ship To Phone	Currency	CAD
Ship Via:	FOB	FCA - (Free Carrier)
Ship Acct:		

*M128168*

Line	Reference	Description/	Req Date/	CD	Req Qty/	PO Unit Price	Extended
Nbr	Vendor Part Number	Mfg ID	Taxable		Unit of Measure		Price
<b>Line Comments</b>							
			Promise Date				
1	M303R0.250	303 Round Bar 0.250"	2/18/2014		12.00	\$2.50	\$30.00
			Yes		f		
			2/18/2014				

QUOTATION: NO PEC ST-648002

MATERIAL: AISI 303 SS ROUND BAR

AS PER ASTM A582

NOTE: AISI 304/316 NOT ACCEPTABLE

Line Total: \$30.00

2	M6061T6A1.000W.125	6061T6 ANGLE 1.00 x 1.00 x .125W	2/18/2014	40.00	/	\$1.50	\$60.00
			Yes		f		
			2/18/2014				

MATERIAL: 6061-T6/T6510/T6511 ALUMINUM ANGLE  
AS PER AMS-QQ-A-200/8

*Revised*

Line Total: \$60.00

**PO Instructions:** Procurement Quality Clauses  
A005 right of entry  
A012 chemical and physical test report  
A016 personnel qualification  
A017 raw material identification (as applicable)  
A026 certification of material conformance  
A041 quality management system  
A042 dart notification by supplier

Note:



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID PO22962

Purchase Order Date 2/11/2014

PO Print Date 2/19/2014

Page Number 2 of 5

Order From : VC-COP001  
THYSSENKRUPP MATERIALS CA LTD  
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL "A"  
TORONTO, ON M5W 5V8  
CA

Ship To : DART AEROSPACE LTD  
1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

Contact Name  
Vendor Phone 905 669 9444

Buyer Chantal Lavoie

Ship To Contact  
Ship To Phone  
Ship Via: VENDOR'S TRUCK  
Ship Acct:

Customer POID

Customer Tax # 10127-2607

Terms Net 30

Currency CAD

FOB FCA - (Free Carrier)

3	M6061T6A4.000W.250	6061T6 ANGLE 4.00 x 4.00 x .250	2/18/2014	20.00	✓	\$4.37	\$87.40
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Yes  
2/18/2014

f  
b

MATERIAL: 6061-T6/T6510/T6511 ALUMINUM ANGLE  
AS PER AMS-QQ-A-200/8

Line Total: \$87.40

4	M6061T6A2.000W.188	Angle 2.000 x 2.000 x .188W	2/18/2014	20.00	✓	\$1.62	\$32.30
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Yes  
2/18/2014

f

MATERIAL: 6061-T6/T6510/T6511 ALUMINUM ANGLE  
AS PER AMS-QQ-A-200/8

Line Total: \$32.30

5	M6061T6B0.187X04.000	6061-T6 Bar .187 x 4.00	2/18/2014	24.00	✓	\$1.74	\$41.80
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Yes  
2/18/2014

f

MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR  
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116  
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR  
ASTM B221

✓  
P/CY/02/19

PO Instructions: Procurement Quality Clauses  
A005 right of entry  
A012 chemical and physical test report  
A016 personnel qualification  
A017 raw material identification (as applicable)  
A026 certification of material conformance  
A041 quality management system  
A042 dart notification by supplier

Note:



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID PO22962

Purchase Order Date 2/11/2014

PO Print Date 2/19/2014

Page Number 3 of 5

Order From : VC-COP001  
THYSSENKRUPP MATERIALS CA LTD  
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL "A"  
TORONTO, ON M5W 5V8  
CA

Ship To : DART AEROSPACE LTD  
1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

Contact Name  
Vendor Phone 905 669 9444

Buyer Chantal Lavoie

Ship To Contact  
Ship To Phone  
Ship Via: VENDOR'S TRUCK  
Ship Acct:

Customer POID

10127-2607

Customer Tax #

Net 30

Terms

CAD

Currency

FCA - (Free Carrier)

FOB

Line Total: \$41.80

6 M6061T6R0.625 6061-T6 Round Bar .625" 2/18/2014 36.00 ✓ \$0.74 \$26.60  
Yes f 2/18/2014

MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR  
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116  
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR  
ASTM B221

Line Total: \$26.60

7 M6061T6R1.000 ROUND BAR 1.00" 2/18/2014 12.00 ✓ \$2.50 \$30.00  
Yes f 2/18/2014  
*Perf/HS*

MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR  
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116  
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR  
ASTM B221

Line Total: \$30.00

PO Instructions: Procurement Quality Clauses  
A005 right of entry  
A012 chemical and physical test report  
A016 personnel qualification  
A017 raw material identification (as applicable)  
A026 certification of material conformance  
A041 quality management system  
A042 dart notification by supplier

Note:



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID **PO22962**

Purchase Order Date 2/11/2014

PO Print Date 2/19/2014

Page Number 4 of 5

**Order From :** VC-COP001  
THYSSENKRUPP MATERIALS CA LTD  
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL "A"  
TORONTO, ON M5W 5V8  
CA

**Ship To :** DART AEROSPACE LTD  
1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

**Contact Name**  
**Vendor Phone** 905 669 9444

**Buyer** Chantal Lavoie  
**Customer POID**  
**Customer Tax #** 10127-2607  
**Terms** Net 30  
**Currency** CAD  
**FOB** FCA - (Free Carrier)

**Ship To Contact**  
**Ship To Phone**  
**Ship Via:** VENDOR'S TRUCK  
**Ship Acct:**

8	M6061T6R1.500	6061-T6 Round Bar 1.50	2/18/2014	12.00	<i>✓</i>	\$4.12	\$49.40
			Yes	f			
			2/18/2014				

MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR  
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116  
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR  
ASTM B221

**Line Total:** \$49.40

9	M6061T6T8.000W.125	6061-T6 RD Tube 8.00 X.125W	2/18/2014	20.00	<i>f</i>	\$14.60	\$292.00
			Yes				
			2/18/2014				

MATERIAL: 6061-T6/T62/T6510/T6511 SEAMLESS TUBING  
AS PER WW-T-700/8 OR QQ-A-200/8 OR QQ-A-225/8 OR  
AMS 4080 OR AMS 4082 OR AMS 4083 OR ASTM B210 OR  
ASTM B241

**Line Total:** \$292.00

10	M303B1.000X1.000	303 BAR 1" X 1"	2/18/2014	12.00	<i>f</i>	\$12.45	\$149.40
			Yes				
			2/18/2014				

MATERIAL: AISI 303 SS BAR AS PER ASTM A582  
NOTE: AISI 304/316 NOT ACCEPTABLE

*✓*  
*✓*

**PO Instructions:** Procurement Quality Clauses  
A005 right of entry  
A012 chemical and physical test report  
A016 personnel qualification  
A017 raw material identification (as applicable)  
A026 certification of material conformance  
A041 quality management system  
A042 dart notification by supplier

**Note:**



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID **PO22962**

Purchase Order Date 2/11/2014  
PO Print Date 2/19/2014

Page Number 5 of 5

**Order From :** VC-COP001  
THYSSENKRUPP MATERIALS CA LTD  
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL "A"  
TORONTO, ON M5W 5V8  
CA

**Ship To :** DART AEROSPACE LTD  
1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

**Contact Name**  
**Vendor Phone** 905 669 9444

**Buyer** Chantal Lavoie  
**Customer POID**  
**Customer Tax #** 10127-2607  
**Terms** Net 30  
**Currency** CAD  
**FOB** FCA - (Free Carrier)

**Ship To Contact**  
**Ship To Phone**  
**Ship Via:** VENDOR'S TRUCK  
**Ship Acct:**

**Line Total:** \$149.40

**PO Total:** \$798.90

**PO Instructions:** Procurement Quality Clauses  
A005 right of entry  
A012 chemical and physical test report  
A016 personnel qualification  
A017 raw material identification (as applicable)  
A026 certification of material conformance  
A041 quality management system  
A042 dart notification by supplier

**Note:** Pricing listed above is as per contract agreement between Dart Aerospace and the respective manufacturer.